

CLAIM AMENDMENTS

This listing of claims will replace all prior versions, and listing, of claims in the application:

Listing of Claims:

Claim 1. (Currently Amended): A pump for pumping fluid in a vehicle having at least one fluid reservoir, said pump comprising:

a pump housing having a pump element;

an electric motor operatively attached to and disposed within said pump housing;

a pumping chamber;

the pump element operatively coupled to said electric motor;

said pumping chamber including an intake port for receiving fluid from said fluid reservoir and an exit port for pumping fluid from said fluid reservoir, wherein said intake port and said exit port are oriented in a substantially coplanar relationship; and

at least one other intake port or exit port derived from porting configured in a surface adjacent to and not formed integrally with the pump;

wherein said pump is submerged within said fluid reservoir of said vehicle;

wherein said fluid reservoir is selected from the group consisting of a transmission, transfer case, engine reservoir, and combinations thereof.

Claim 2. (Previously Presented): The pump of claim 1 wherein there is a wall separating the motor from the pumping chamber and said wall includes an inlet or outlet port from said pumping chamber.

Claim 3. (Previously Presented): The pump of claim 1 wherein an inlet or outlet porting is provided into said pumping chamber, wherein said inlet or outlet porting comprises an existing fixture of a transmission, transfer case or oil pan of said vehicle.

Claim 4. (Previously Presented): The pump of claim 3 wherein a port plate is provided between the pump housing for providing pump porting between the pump chamber.

Claim 5. (Previously Presented): The pump of claim 4 wherein said port plate is an integral part of said pump housing.

Claim 6. (Previously Presented): The pump of claim 5 wherein said port plate is a portion of valve manifold plate for placement of said pump onto a valve manifold of said transmission.

Claim 7. (Previously Presented): The pump of claim 1 wherein said pump housing is an integral part of a valve manifold of said transmission.

Claim 8. (Original): The pump of claim 2 wherein said wall includes an inlet for pumping fluid through said motor.

Claim 9. (Original): The fluid pump of claim 1 wherein said motor pump is brushless.

Claim 10. (Canceled)

Claim 11. (Original): The pump of claim 10 wherein the pump element is mounted on an armature shaft of said motor.

Claim 12. (Previously Presented): The pump of claim 1 wherein said motor further comprises an outer armature stator with a series of coils therein and an inner armature that is magnetically biased for self-centering of said armature in said stator.

Claim 13. (Previously Presented): The pump of claim 12 wherein a bearing is provided for said armature and said stator is mounted in said housing for biasing said armature toward said bearing.

Claim 14. (Previously Presented): The pump of claim 12 wherein a bearing is provided for said armature, wherein said stator is selectively operable to prevent said armature from contacting said bearing.

Claim 15. (Previously Presented): The pump of claim 12 wherein said armature includes a plurality of peripheral magnets separated by a space in between, wherein the space in between said plurality of peripheral magnets is substantially minimized to prevent windage of said armature.

Claim 16. (Original): The pump of claim 12 wherein said armature includes a polarized full round magnet for reducing windage.

Claim 17. (Previously Presented): The pump of claim 1 wherein said pump is operable to respond to on demand requirements of said engine, transmission or transfer case.

Claim 18. (Previously Presented): The pump of claim 17 wherein the on demand requirement is keeping said transmission charged during engine off conditions.

Claim 19. (Previously Presented): The pump of claim 1 wherein said pump is fully submerged in the fluid in said engine reservoir.

Claim 20. (Previously Presented): The pump of claim 1 wherein a motor controller is attached to said pump housing for controlling a brushless motor.

Claim 21. (Previously Presented): The pump of claim 1 wherein said pump housing is open to said electric motor, allowing fluid to reach said electric motor.

Claim 22. (Currently Amended): A pump for pumping of fluid from at least one fluid reservoir of a vehicle,

said fluid pump comprising:

a submerged pump housing;

a motor situated in said pump housing and exposed to the fluid in the fluid reservoir;

said motor including a self centering armature therethrough;

a pump chamber at the base of said pump housing;

a pump element operably attached to said armature in said chamber for pumping fluid; and

a surface adjacent to and not formed integrally with the pump housing and operatively associated with the pump chamber for providing an inlet or and an outlet of fluid to the pump chamber contained in the pump housing, wherein said inlet and said outlet are oriented in a substantially coplanar relationship, and said surface including at least one oil fill passage connecting said fluid reservoir to said pump chamber for intake and pumping of said oil from said fluid reservoir;

wherein said pump is submerged within said fluid reservoir of said vehicle;

wherein said fluid reservoir is selected from the group consisting of a transmission, transfer case, oil reservoir, and combinations thereof.